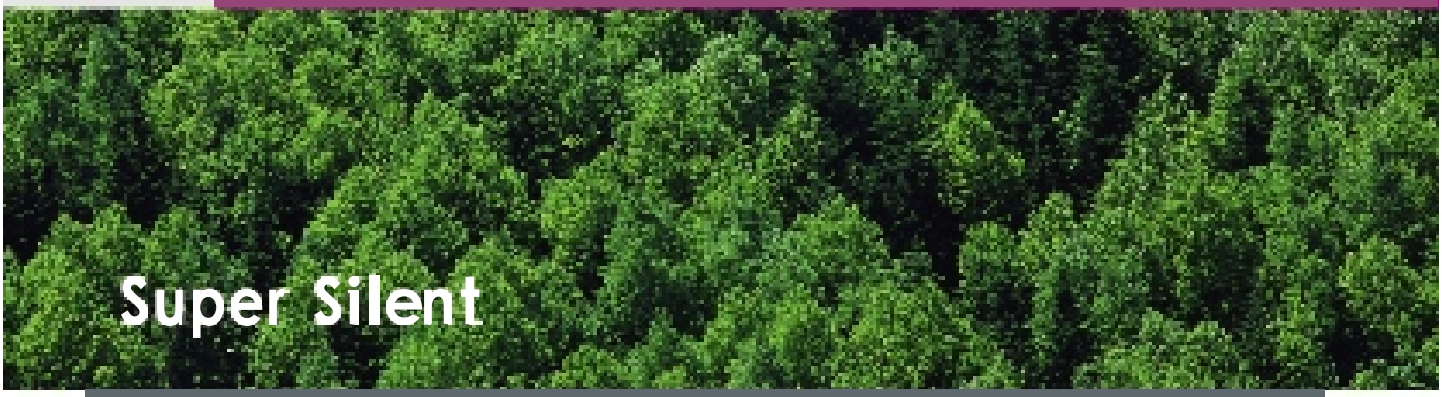
COOLER MASTER®

Expand Your Imagination

iGREEN POWER 430W

www.coolermaster.com

Embrace the Green World



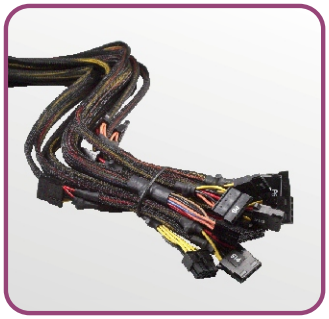
85% Efficiency

RS-430-ASAA

Cooler Master's power supply has been praised highly of its high efficiency and stability. In the year of 2006, Cooler Master will launch a new series of power supply iGreen Power 430W/500W/600W. iGreen Power is the world first power supply which achieves 85% efficiency through Double Forward Switching Circuit Technology. This intelligent circuit configuration stabilizes your running system without costing you a fortune. While staying true to our original mission to provide the best products, Cooler Master is responding to the environmental concern around our globe. We make this iGreen environmental friendly - it has met the Energy Star and Blue Angel requirements.

Compliant RoHS 2002 / 95 / EC

120mm silent dual ball bearing fan (17dBA) with exclusive fan guard



Sleeved Cable for neat management and airflow improvement

Honey Combs Structure & Power Failure Detector

High Quality Electroplating

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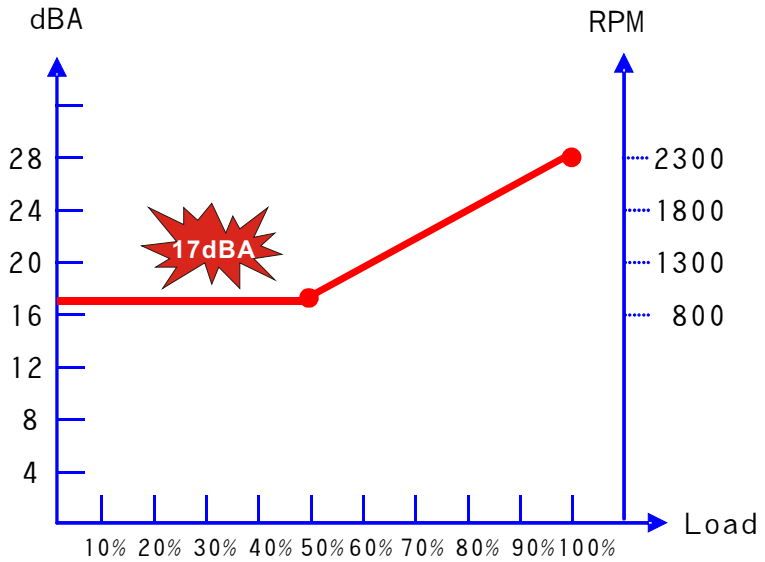
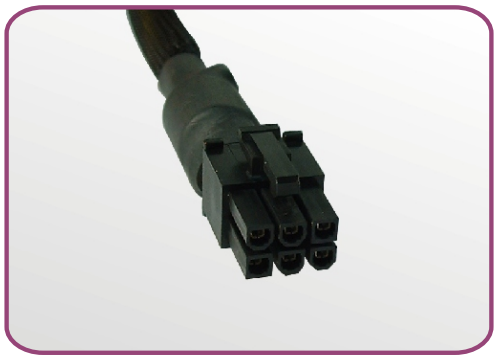
Features

1. Intelligent Circuit Configuration
   - No.1 "Double Forward Switching Circuit" Technology for 85% Efficiency
   - Intelligent circuit configuration for higher stability and reliability
   - Super silent operation with intelligent fan speed controller
2. Green Power Product
   - Green power design to meet “Energy Star” and “Blue Angel” requirements for energy and money saving
   - RoHS Compliance
3. High Performance
   - Compliance with the newest Intel® standard ATX 12V V 2.2
   - 120mm dual ball bearing fan makes superb heat dissipation at low noise (17dBA)
   - Sleeved Cables for neat management and airflow improvement.
4. High Reliability
   - Life expectancy: MTBF > 400,000 hours
   - Passing Over-Voltage, Under-Voltage, Over-Temperature, Over-Current, Over-Loading, and Short Circuit Protection
   - Passing 100% burn-in, hi-pot & ATE tested
5. Worry Free While you work or play
   - Power Failure Detector will light up when Over-Voltage, Under-Voltage, Over-Temperature, Over-Current, Over-Loading, and Short circuit occur.
   - PCI-e connector with bead core protection to minimize EMI for reducing noises.



PCI-e Connector with Bead Core

- PCI-e connector with bead core protection to minimize EMI for reducing noises



HIGHT EFFICIENCY | INTELLIGENT FAN CONTROLLER | GREEN POWER | EMI SHIELDING | SLEEVED CABLE | 4X RELIABILITY | FULL PROTECTION | SUPER SILENT | SERIAL ATA SATA | PCI EXPRESS

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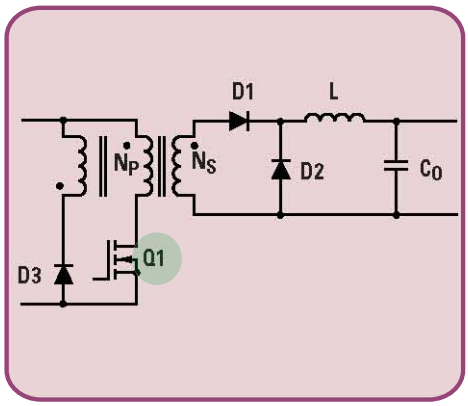
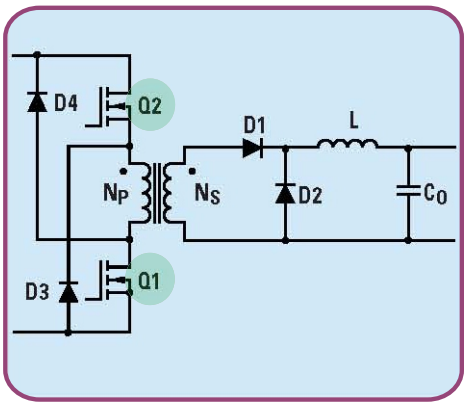
Double Forward Switching Circuit

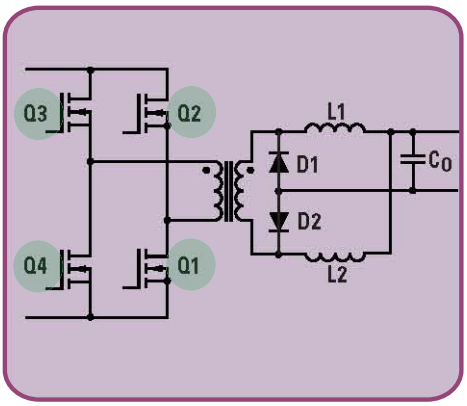
iGreen Power is the world first power supply which achieves 85% efficiency through Double Forward Switching Circuit Technology. This intelligent circuit configuration stabilizes your running system without costing you a fortune.



Forward Circuit



Double Forward Circuit



Phase Shift Circuit

Switching Circuit	Forward	Double Forward	Phase Shift ZVT
Switching Components (MOSFETs)	1	2	4
Efficiency	Low (65 ~ 75%)	High (75% ~ 85%)	High (75% ~ 85%)
Power Lose	High	Low	Low
Product Life	Low (MTBF>50,000 hrs)	High (MTBF>200,000hrs)	High (MTBF>100,000hrs)
Stability	High	High	Medium
Rating	★★★	★★★★★	★★★★

High Technology = High Efficiency

High Efficiency → Low Lost → Low Power Input → Energy & Money Saving

High Technology = High Stability

High Stability → Long Life Expectancy → Money Saving

High Technology

Save 1000 D(kw/hr) electricity will reduce 0.43 ton(1000L^3) carbon dioxide (CO_2)

Energy Save will achieve environment protection

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Specifications

Model	RS-430-ASAA (Active)
Type	ATX Form Factor 12V V2.2
PFC	Active PFC (0.99)
Input Voltage	90 ~ 264V (Auto Range)
Input Current	8A @ 115Vac / 4A @ 230Vac
Input Frequency Range	47 ~ 63 Hz
Fan	Dual ball bearing 120mm fan
Power Good Signal	100 ~ 500 ms
Hold Up Time	> 17 ms
Efficiency (Load)	81% (90W) / 85% (215W) / 82% (430W)
MTBF	>400,000 hrs
Output Capacity	430 Watts Continuous
Max. Output Capacity	500 Watts
Protection	OVP / UVP / OTP / OCP / OLP / OPP / SCP
Dimension	Standard ATX 150 x 140 x 86 (mm)
Operation Temperature	5~50℃ (Nominal Input Voltage)
Safety	Nemko / TUV / cUL / CE / BSMI / FCC / CCC

20+4pin Motherboard Connector x1

4 pin +12V CPU Connector x 1

6 pin PCI-e Connector x1

S-ATA Connectors x 4

4pin Peripheral Connectors x5

4 pin Floppy Connector x 1

Support upto 8~10pcs USB Devices

- The newest Intel® standard ATX 12V V 2.2
- With 5Vsb increasing from 2A to 3A, it could support up to 8~10pcs USB devices.
- USB devices could be charged when your PC is power off.

AC INPUT	115V / 230V 8A / 4A 60/50Hz					
DC OUTPUT	+3.3V	+5V	+12V$_1$	+12V$_2$	-12V	+5Vsb
MAX.	25A	20A	19A	19A	0.8A	3.5A
CONTINUITY	20A	15A	14A	13A	0.5A	3.0A
MAX. POWER	141W		324W		6W	15W
	430W (Continuous)					

Powerful +12V Rails (324W)

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